

INTERRUPTION DATA TRANSFER SYSTEM

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Abstract

PURPOSE: To prevent the overhead loss of communication control processing by additionally transmitting at least one-byte data indicating the interrupt indication and the frame length of an untransmitted frame when the transmission request of a preferential data frame is received to interrupt transmission of a normal data frame and restarting transmission of normal data thereafter.

CONSTITUTION: Normal data A and preferential data B are stored on a main memory of a main processor. If a communication control unit CCU (R) in the reception side receives the transmission request of data B while data a of data A is transmitted from a unit CCU (S) in the transmission side to the unit CCU (S) with a prescribed frame format, transmission of data a1 is interrupted to additionally transmit at least one-byte data indicating the interrupt indication and the frame length of an untransmitted frame, and data (b) of data B to be next transmitted is transmitted. Thereafter, data a2 following data a1 is transmitted, and at least one-byte data indicating the end indication and frame length zero of the untransmitted frame is additionally transmitted. Thus, it is unnecessary to transmit data A again from the first.

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